



Gigabit 20KM SFP optical module

SF312A-LC-20KM

Product Brochure

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Product Introduction :

SF312A-LC-10KM Small Form Factor Pluggable (SFP) transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). The transceiver consists of five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the 1310nm FP laser and the PIN photo-detector .The module data link up to 10KM in 9/125um single mode fiber.



Key Features:

- Up to 1.25Gb/s data links
- FP laser transmitter and PIN photo-detector
- Up to 10km/20km on 9/125µm SMF
- Hot-pluggable SFP footprint
- Duplex LC/UPC type pluggable optical interface
- Low power dissipation
- Metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Single +3.3V power supply
- Support Digital Diagnostic Monitoring interface
- Compliant with SFF-8472
- Case operating temperature
 - Commercial: 0°C to +70°C
 - Extended: -10°C to +80°C
 - Industrial: -40°C to +85°C

Specifications:

System Specifications	parameter
Package Type	SFP
Maximum transfer rate	1.25Gbps
Wavelength	1310nm
Maximum transmission distance	20km
Fiber Type	Single Mode
Interface Type	LC Duplex
DDM	support
Supply voltage	3.3V
Operating temperature	0°C-70°C (commercial grade)
Warranty	2years

Main Applications

- **Switch to Switch Interface**
- **Gigabit Ethernet**
- **Switched Backplane Applications**
- **Router/Server Interface**
- **Other Optical Links**